WATER, AIR AND SOIL POLLUTION / *Volume 95 Nos. 1–4 April 1997*

M.A. VEDYUSHKIN / Vegetation response to global warming: the role of hysteresis effect 1–12
S.K. HEMIDA, S.A. OMAR and Y.Y. ABDEL-MALLEK / Microbial populations and enzyme activity in soil treated with heavy metals 13–22
U. NEU, U. VOGT, G. BAUMBACH and H. WANNER / An experimental method to test the effects of local emission reductions during summersmog 23–34
D.Y. WANG, C.L. QING, T.Y. GUO and Y.J. GUO / Effects of humic acid on transport and transformation of mercury in soil-plant systems 35–43
S.W. EFFLER, S.M. DOERR and E.M. OWENS / Effect of reduced salinity input on river stratification and dissolved oxygen 45–58
A. BARONA and F. ROMERO / Relationships among metals in the solid phase of soils and in wild plants 59–74
A.S. MARSH and T.G. SICCAMA / Use of formerly plowed land in New England to monitor the vertical distribution of lead, zinc and copper in mineral soil 75–85
S. BELL and T.W. ASHENDEN / Spatial and temporal variation in nitrogen dioxide pollution adjacent to rural roads 87–98
M. RENOLDI, M. CAMUSSO and G. TARTARI / The highly polluted Lambro river (N. Italy): Dissolved and solid transport of Cu, Cr and Fe 99–118
U.R. KACKSTAETTER and G. HEINRICHS / Validity of lowcost laboratory geochemistry for environmental applications 119–131
P.N. BHAT and K.C. PILLAI / Beryllium in environmental air, water and soil 133–146
S. MANNINEN, S. HUTTUNEN and M. KONTIO / Accumulation of sulphur in and on scots pine needles in the subarctic 147–164
T.D. NICHOLS, D.C. WOLF, H.B. ROGERS, C.A. BEYROUTY and C.M. REYNOLDS / Rhizosphere microbial populations in contaminated soils 165–178
A.L. WRIGHT, R.W. WEAVER and J.W. WEBB / Oil bioremediation in salt marsh mesocosms as influenced by N and P fertilization, flooding, and season 179–191
P.J. SMALLIDGE and D.J. LEOPOLD / Effects of watershed liming on *Picea rubens* seedling biomass and nutrient element concentration 193–204
A. JENSEN / Historical deposition rates of Cd, Cu, Pb, and Zn in Norway and Sweden estimated by ^{210}Pb dating and measurement of trace elements in cores of peat bogs 205–220
A.B. SHAHALAM, A. BIOUSS, G.M. AYOUB and A.A. ACRA / Competitive adsorption phenomena of petrochemicals – benzene, toluene, and xylene in hexane in fixed-beds of sands 221–235
A.J. RANALLI, J.T. TURK and D.H. CAMPBELL / The use of bulk collectors in monitoring wet deposition at high-altitude sites in winter 237–255
S.X. LIU and L.A. GLASGOW / Aggregate disintegration in turbulent jets 257–275
S. MANNINEN, S. HUTTUNEN and P. PERÄMÄKI / Needle S fractions and S to N ratios as indices of SO_2 deposition 277–298
J.R. DROHAN and W.E. SHARPE / Long-term changes in forest soil acidity in Pennsylvania, U.S.A. 299–311
T.J. SULLIVAN, J.M. EILERS, B.J. COSBY and K.B. VACHÉ / Increasing role of nitrogen in the acidification of surface waters in the Adirondack Mountains, New York 313–336
M. PETRANGELI PAPINI and M. MAJONE / Experimental investigation of transport of strongly retained species by soil columns 337–351
Q. PONETTE, J.E. DUFEY and F. WEISSEN / Downward movement of dolomite, kieserite or a mixture of $CaCO_3$ and kieserite through the upper layers of an acid forest soil 353–379
E.X. WANG and G. BENOIT / Fate and transport of contaminant lead in spodosols: a simple box model analysis 381–397

H. FENGXIANG and A. BANIN / Long-term transformations and redistributions of potentially toxic heavy metals in arid-zone soils incubated: I. Under saturated conditions 399–423
Book reviews 425–428
Information for authors 429–430

Founded in 1971, with an international editorial board of 25 scientists and 7 Associate Editors, *Water, Air, and Soil Pollution* is an interdisciplinary journal for all the physical and biological processes affecting our flora, air, water, and solid earth in relation to environmental pollution. Because of its wide scope, the topics are diverse and include all aspects of sources, transport, deposition, accumulation, disposition, and mitigation of acid precipitation, atmospheric pollution, heavy metals, water pollution, waste water, wastes, pesticides, soil pollution, sewage sediments, etc.; effects of pollutants on human beings, vegetation, fish, aquatic species, microorganisms, animals, etc.; ecological implications of pollution; and pollution models.

Photocopying. *In the U.S.A.*: This journal is registered at the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923.

Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by Kluwer Academic Publishers for users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the fee of USD 9.50 per copy is paid directly to CCC. For those organizations that have been granted a photocopy licence by CCC, a separate system of payment has been arranged. The fee code for users of the Transactional Reporting Service is 0049–6979/97 USD 9.50.
Authorization does not extend to other kinds of copying, such as that for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale.
In the rest of the world: Permission to photocopy must be obtained from the copyright owner. Please apply to Dordrecht office.

Water, Air, and Soil Pollution is published monthly.
Subscription price (1997): USD 2500.00 including postage and handling.
Periodicals postage paid at Rahway, N.J. USPS No. 913–880.
U.S. Mailing Agent: Mercury Airfreight International Ltd., 2323 Randolph Ave., Avenel, NJ 07001.
Published by Kluwer Academic Publishers, Spuiboulevard 50, P.O. Box 17, 3300 AA Dordrecht, The Netherlands, and 101 Philip Drive, Norwell, MA 02061, U.S.A.
Postmaster: Please send all address corrections to: *Water, Air, and Soil Pollution,* c/o Mercury Airfreight International Ltd., 2323 Randolph Ave., Avenel, NJ 07001, U.S.A.

Printed on acid-free paper